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parallel "file system" servers log

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### Recovery of file system data in file servers mirrored file system volumes

US Pat. 7096379 - Filed Nov 21, 2003 - Network Appliance, Inc.

A second known method is to maintain a **log** of regions or file blocks in each ... of file system data in file **servers** having mirrored **file system** volumes. ...

### Synchronizing/updating local client notes with annotations previously made ...

US Pat. 6687878 - Filed Mar 15, 1999 - Real Time Image Ltd.

24 one or more **servers**, coupled to a first network; 54. The system according to claim 45, further comprising a document **file system** located on at least one ...

### Systems and methods for publishing data with expiration times

US Pat. 6618751 - Filed Aug 20, 1999 - International Business Machines Corporation

DPS is similar to an APS (Andrew **File System**), also from 60 Transarc, ... at the origin **servers** and refreshing them once they expire from a central source. ...

### Dynamic redistribution of parity groups

US Pat. 6862692 - Filed Jan 29, 2002 - Adaptec, Inc.

Hot adding of **servers** allows for increased file operations per second and **file system** capacity. Hot-added **servers** are automatically configured and used. ...

### File system metadata describing server directory information

US Pat. 7054927 - Filed Jan 29, 2002 - Adaptec, Inc.

In normal operation, the **servers** in a cluster operate in **parallel**. ... metadata and intent **log** of the other's primary **file system** metadata and intent **log**. ...

### Method and apparatus for multiprotocol operation of a networked peripheral ...

US Pat. 5784622 - Filed Nov 18, 1992 - Canon Kabushiki Kaisha

The local printers can be connected to either serial or **parallel** pens, ... or write the **log** file to memory such as a local or a **file system** disk. ...

### Method and **system** for providing dynamic hosted service management across ...

US Pat. 6816905 - Filed Nov 10, 2000 - Galactic Computing Corporation BVI/BC

The distribution of work among **servers** can also be accomplished by interposing an ... describes a distributed **file system** with shared metadata management, ...

### **System** for executing first and second independently executable programs ...

US Pat. 5680645 - Filed Nov 18, 1992 - Canon Kabushiki Kaisha

... available in similes etc., and **servers** may also be provided based on the NEB, ... for users since it memory such as a local or a **file system** disk. ...

### Multiple hierarichal/peer domain **file** server with domain based, cross domain ...

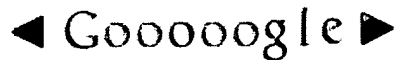
US Pat. 6718481 - Filed May 26, 2000 - EMC Corporation

... the **file system**, such as a failure of a Blade 14, the transaction **log** is replayed ... various types of data processor **servers**, print **servers**, and so on, ...

Interactive network board for logging peripheral statistics with logging ...

US Pat. 5537550 - Filed Nov 18, 1992 - Canon Kabushiki Kaisha

The local 35 printers can be connected to either serial or **parallel** ports, ...  
or write the **log** file to memory such as a local or a **file system** disk. ...



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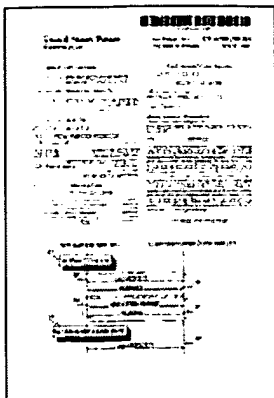
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[Sign in](#)[About this patent](#)[Read this patent](#)**Replication method** Yoko Hirashima et al[Read this patent](#)[Download PDF](#)[View patent at USPTO](#)[Abstract](#) | [Drawing](#) | [Description](#) | [Claims](#)**Abstract**

A directory system for performing replication of directory data, in which a directory server on the consumer side can reconstruct replica data using a backup kept at any point in time. Information 10c for specifying the entry changed for the last time by replication performed by replication service 10' is recorded into the replica data 9c managed by the directory server on the consumer side. Based on this information, the replication service 10' can know the entry on which next replication is to be performed. Thus, the replication service 10' can recognize the difference between the master data 9s managed by the directory server on the supplier side and the replica data 9c, and can perform replication on this difference when only the replica data 9c is reconstructed using the backup.

**Patent number:** 6301589**Filing date:** Dec 2, 1998**Issue date:** Oct 9, 2001**Inventors:** Yoko Hirashima, Satoshi Kikuchi, Hitoshi Yui**Assignee:** Hitachi, Ltd.**Primary Examiner:** Jacques Veillard**U.S. Classification**

707/204; 707/8; 707/104;  
707/200; 907/200;  
907/201; 907/223; 379/34

**Claims**

What is claimed is:

1. A replication method for keeping contents of master data and contents of replica data identical to each other in a directory system, in which, a first directory server manages the master data of directory data and records and holds replication log of operations in changing said master data; one or more second directory servers each manages its replica data as a replica of said master data; and said first directory server and said one or more second directory servers are capable of being connected through a network; wherein said replication method comprises: said first directory server acquires a replication log which becomes an object of processing out of the replication log recorded and held by said first directory server, and issues a replication request that requests performing, on said replica data, the same operations as operations corresponding to the acquired replication log to said second directory server;

said first directory server and the second directory server record an identifying information for specifying the replication log corresponding to said operations performed by said second directory server when said operation performed in accordance with said replication request is successful; and the identifying information recorded by said second directory server is referred to, so as to decide the replication log to be acquired, in acquiring the replication log which is to be a new object of processing from the replication log recorded and held by said first directory server.

2. The replication method according to claim 1, wherein said replication server issues a directory access request that requests performing an operation of searching said identifying information, to said second directory server, so as to refer to the identifying information recorded in the replica data managed by said second directory server.

3. The replication method according to claim 2, wherein: said replication server issues a directory access request that requests performing an operation of recording said identifying information, to said second directory server, so as to record said identifying information into the replica data managed by said second directory server.

<u>6505200</u>	Application-independent data synchronization technique	Jan 7, 2003
<u>6542907</u>	Method and apparatus for decentralized, invertible generation of bounded-length globally unique replica identifiers	Apr 1, 2003
<u>6587856</u>	Method and system for representing and accessing object-oriented data in a relational database system	Jul 1, 2003
<u>6615223</u>	Method and system for data replication	Sep 2, 2003
<u>6704885</u>	Performing data backups with a stochastic scheduler in a distributed computing environment	Mar 9, 2004
<u>6715128</u>	Method for converting directory data, and program and device therefor	Mar 30, 2004
<u>6728849</u>	Remote storage system and method	Apr 27, 2004
<u>6748374</u>	Method for generating a relational database query statement using one or more templates corresponding to search conditions in an expression tree	Jun 8, 2004
<u>6834286</u>	Method and system for	Dec 21, 2004

	representing and accessing object-oriented data in a relational database system	
<u>6859821</u>	Method and apparatus for prioritizing data change requests and maintaining data consistency in a distributed computer system equipped for activity-based collaboration	Feb 22, 2005
<u>6957234</u>	System and method for retrieving data from a database using a data management system	Oct 18, 2005
<u>6973533</u>	Data storage device providing communication between processing units	Dec 6, 2005
<u>7016897</u>	Authentication referral search for LDAP	Mar 21, 2006
<u>7024429</u>	Data replication based upon a non-destructive data model	Apr 4, 2006
<u>7107355</u>	High availability lightweight directory access protocol service	Sep 12, 2006
<u>7162499</u>	Linked value replication	Jan 9, 2007
<u>7185359</u>	Authentication and authorization across autonomous network	Feb 27, 2007

**International  
Classification**  
G06F 1200; G06F 1730

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**Citations**

<b>Patent Number</b>	<b>Title</b>	<b>Issue date</b>
<u>5765171</u>	Maintaining consistency of database replicas	Jun 9, 1998
<u>5956489</u>	Transaction replication system and method for supporting replicated transaction-based services	Sep 21, 1999
<u>5974563</u>	Real time backup system	Oct 26, 1999
<u>5978813</u>	System for providing synchronization between a local area network and a distributing computer environment	Nov 2, 1999
<u>6049809</u>	Replication optimization system and method	Apr 11, 2000
<u>6097882</u>	Method and apparatus of improving network performance and network availability in a client-server network by transparently replicating a network service	Aug 1, 2000

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**Referenced by**

<b>Patent Number</b>	<b>Title</b>	<b>Issue date</b>
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	systems	
<u>7200847</u>	Urgent replication facility	Apr 3, 2007
<u>7203687</u>	Peer-to-peer replication member initialization and deactivation	Apr 10, 2007

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#### [Advances in Windows NT storage management - all 6 versions »](#)

LF Cabrera, B Andrew, K Peltonen, N Kusters - Computer, 1998 - [ieeexplore.ieee.org](#)

... of these filters, using information stored in the **registry**. ... The **file replication** service uses the change journal to ... to optimize storage use **Windows** NT 5.0 will ...

Cited by 5 - [Related Articles](#) - [Web Search](#)

#### [\[BOOK\] Windows 2000 System Administration Handbook](#)

W Willis, D Watts, T Strahan - 2000 - [docs-asia.electrocomponents.com](#)

... Site and **Replication**. **Replication** Topology. ... Encrypting Files and Folders. Using an Encrypted **File** or Folder. Disk Defragmentor. ... **Windows** Backup. Remote Storage. ...

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#### [Method for upgrading copies of an original file with same update data after normalizing differences ... - all 3 versions »](#)

MV Sliger, TD McGuire - US Patent 6,216,175, 2001 - [Google Patents](#)

... Due to the **replication** of long strings of data from ... of preloading the respective compressor/decompressor history **windows** with the old version of the **file**. ...

Cited by 10 - [Related Articles](#) - [Web Search](#)

#### [Windows NT Clustering Service - all 6 versions »](#)

R Gamache, R Short, M Massa - Computer, 1998 - [ieeexplore.ieee.org](#)

... service relies heavily on the **Windows** core infrastructure ... security, resource controls, and **file** system. ... pair, primary-backup, active **replication**), no facilities ...

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#### [\[BOOK\] Managing the Windows 2000 Registry - all 2 versions »](#)

P Robichaux - 2000 - [books.google.com](#)

... store their data in several different files instead of **Windows** 3.1's single **file**.

The Win9x **Registry** is also tightly integrated with—and heavily used by ...

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#### [\[BOOK\] 1001 Secrets for Windows NT Registry](#)

T Daniels - 1998 - 29th Street Pr

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#### [\[PDF\] Guide to Securing Microsoft Windows 2000® Active Directory - all 12 versions »](#)

MJ Sanderson, DC Rice - 2000 - [intellnet.org](#)

... the multi- master Active Directory **replication** scheme. ... to the Active Directory database **file** (ntds.dit ... restore mode password, unlike typical **Windows** 2000 group ...

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#### [\[PDF\] The NFS Version 4 Protocol - all 26 versions »](#)

B Pawlowski, S Shepler, C Beame, B Callaghan, M ... - Proceedings of the 2nd international system administration ..., 2000 - [www-uk.netapp.com](#)

... 4 supports **file** system **replication** and migration ... when applications are doing frequent **file** locking operations ... like Batch OpLocks in **Windows**, allowing subsequent ...



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**Transaction replication system and method for supporting replicated transaction-based services - all 2 versions »**

RJ San Andres, P Choquier, RG Greenberg, JF ... - US Patent 5,956,489, 1999 - Google Patents

... King, Adrian, "The User Interface and the Shell," Inside **Windows** 95, Chapter 5 (1994). ... "Window Consistent **Replication** for Real-time ... Replicate one **file** ...

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**System for replicating and associating file types with application programs among plurality of ... - all 3 versions »**

MG Brooks, RT Young - US Patent 6,047,312, 2000 - Google Patents

... ERROR NSTART SELECT **FILE** ACCESS **REGISTRY** 506 START APPLICATION LAUNCHER LAUNCH PROCESS ...

In the typical **WINDOWS** environment, the **file** manager accesses ...

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### Method and apparatus to update a windows registry from a ...

"regedit.exe" is the **executable** to be run. "/s" indicates that a silent mode is to ... These **registry update file** commands are standard **windows** API's in the ...  
[www.freepatentsonline.com/6347331.html](http://www.freepatentsonline.com/6347331.html) - 58k - [Cached](#) - [Similar pages](#)

### Ask the Performance Team

**Windows** Explorer for shell **version** 4.71 and above includes **Windows** 95 and ... By comparison, **Windows File** Explorer will load a separate BHO instance for ...  
[blogs.technet.com/askperf/](http://blogs.technet.com/askperf/) - 148k - [Cached](#) - [Similar pages](#)

### Seagate Disc Utility CD : Software > Windows - Other - Mininova

**files\Reg48bitLBA.exe** The stand alone Ontrack 48-bit LBA **Registry Update**, **Reg48bitLBA.exe**, utility is available for **Windows** XP and 2000 for the purpose of ...  
[www.mininova.org/tor/752414](http://www.mininova.org/tor/752414) - 23k - [Cached](#) - [Similar pages](#)

### Dell - Support

Can I Upgrade From a 32-Bit **Version** of Microsoft **Windows** Server 2003 to a 64-Bit ... please download and execute the Dell **Registry Update** Tool found here ...  
[support.dell.com/support/topics/global.aspx/support/kb/en/document?dn=1092292](http://support.dell.com/support/topics/global.aspx/support/kb/en/document?dn=1092292) - 37k - [Cached](#) - [Similar pages](#)

### IMG Frequently Asked Questions

**INI file**, use **IMG SOUND.EXE version** 1.78. Note: The **IMG SOUND.EXE** utility announces that "Text to Speech is Available" if it senses the **Windows** Speech ...  
[imgpresents.com/imgfaq.htm?product=My-T-Touch&version=1.77](http://imgpresents.com/imgfaq.htm?product=My-T-Touch&version=1.77) - 48k - [Cached](#) - [Similar pages](#)

### CopyToDVD History

Issues fixed about Audio **file/folders** browse. \* Faster operations. **version** 1.0.0.13 - **CopyToCd RC** \* Checked **compatibility** with **Windows** 95 OSR2 (With ...  
[www.vso-software.fr/products/copytodvd/copytodvd\\_history.php](http://www.vso-software.fr/products/copytodvd/copytodvd_history.php) - 62k - [Cached](#) - [Similar pages](#)

### Deployment Files for PowerBuilder, InfoMaker, and the HTML ...

The directory where the **executable file** is installed. The **Windows** system and **Windows** ... Note: About **REG files Registry update files** that have a . ...  
[www.sybase.com/detail?id=47953](http://www.sybase.com/detail?id=47953) - 142k - [Cached](#) - [Similar pages](#)

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Continue reading Vista Application **Compatibility**: FrontPage 2003. ... an attacker could execute any **executable file** in a folder with the same name. ...  
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### FAQ: Technical - Mono

Mono does not heavily modify the **windows registry**, **update** system DLLs, ..... it reads the .exe **file** headers and check if it's a .net **executable**. ...  
[www.mono-project.com/FAQ:\\_Technical](http://www.mono-project.com/FAQ:_Technical) - 121k - [Cached](#) - [Similar pages](#)

### IBM Communications Server for Windows, Version 6.1.2.3 - Readme

5.2.1 Required **Windows registry update**: The **Windows** registry value for the TCP/IP ....  
Infobundler is provided with this **version** to capture key client **files** ...  
<ftp://ftp.software.ibm.com/ps/products/csnt/fixes/v612/FIXPACK3/READ6123.HTM> - 81k -  
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**Feasibility of a serverless distributed file system deployed on an existing set of desktop PCs - all 22 versions »**

WJ Bolosky, JR Douceur, D Ely, M Theimer - Proceedings of the 2000 ACM SIGMETRICS international ..., 2000 - portal.acm.org

... are drastically affected by the **file replication** factor, it ... on their **Windows** and **Windows NT** computers that collected directory information (**file** names, sizes ...

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**... and apparatuses for generating file correspondency through replication and synchronization between ... - all 3 versions »**

PT Falls, AT Wightman - US Patent 5,950,198, 1999 - Google Patents

... processes of **file** synchronization and **file replication**, it is ... network entities, such as **file** directories, and ... comprise Personal NetWare, VINES, **Windows NT**, LAN ...

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**Archipelago: an island-based file system for highly available and scalable Internet services - all 8 versions »**

M Ji, E Felten, R Wang, JP Singh - USENIX **Windows** Systems Symposium, 2000 - usenix.org

... on a cluster of PCs running **Windows NT** 4.0 ... we can leverage the functions of the internal

**file** systems ... data in skeleton hierarchies is the **replication** of certain ...

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**[BOOK] Mastering Windows 2000 Server - all 2 versions »**

M Minasi... - 2001 - docs-asia.electrocomponents.com

... You could, of course, create the 10 shares and copy the package to each one—but you needn't. **Windows** 2000 includes the **File Replication** Service, or FRS. ...

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**[PDF] The NFS Version 4 Protocol - all 26 versions »**

B Pawlowski, S Shepler, C Beame, B Callaghan, M ... - Proceedings of the 2nd international system administration ..., 2000 - www-uk.netapp.com

... Migration and **Replication** 13 ... protocol, focusing on the security enhancements, integrated

locking support, changes to fully support **Windows** file sharing semantics ...

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**Replication Dynamics of the Yeast Genome - all 5 versions »**

MK Raghuraman, EA Winzeler, D Collingwood, S Hunt, ... - Science, 2001 - sciencemag.org

... significantly earlier than that of all 10-kb **windows** ( $P = 1.9 \dots$  (Inset) Correlation in **replication** time between ... View Larger Version of this Image (35K GIF file)]. ...

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**[PS] Object level physics data replication in the Grid - all 6 versions »**

K Holtman - Proceedings of ACAT, 2000 - kholtman.home.cern.ch

